EonStor DS 3000 Series

High Speed Flexible Storage Delivers Robust Reliability and Management

Fast performance

- Up to 1.3M IOPS and 5,500 Mbps throughput
- High IOPS ideal for database and VDI applications, while bandwidth enhances media editing and surveying jobs

High availability

- Dual controllers and redundant power supplies
- Fast failover performance and assured high data availability

Multiple host options

- Choose from 8Gb/s or 16Gb/s Fibre Channel, 1Gb/s or 10Gb/s iSCSI or 6Gb/s SAS based on your needs and budget
- Hybrid host interfaces for diverse environments on one system lead to greater utility
- Optional onboard iSCSI ports can be added to any host interface type
- Modular components mean easy maintenance and future-proof upgrades

Automated storage tiering and remote replication

- Using SSD, accelerate performance up to three times compared to all-spin storage
- 128-bit encrypted remote replication backs up data to offsite locations for reliable and safe disaster recovery

Fully featured storage systems for SAN and DAS environments, offered in diverse form factors from compact 2U to high density 4U. Make the most of high availability with dual controller models, and grow with powerful yet simple to deploy SMB and enterprise services. Fast performance, modular components, strong data integrity, friendly management, and extensive software bundles make these truly total solutions.

Complete data services with auto storage tiering and remote replication

Every EonStor DS 3000 system arrives with a full suite of premium data services. Thin provisioning augments your storage utilization from an average 30% to 80% so you get more room on your disk drives. For on demand backups, 128-target snapshot is included (upgradable to 4096 targets), alongside 64 replication pair volume mirror/copy (upgradable to 256). Auto storage tiering helps you fully leverage SSD capabilities for up to three times the performance in select tasks compared to spin drives, while 128-bit encrypted remote replication ensures prompt and secure disaster recovery to offsite backup locations.

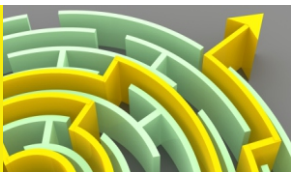
Easy upgrade modular host interface

Based on your needs and budget, select from 8Gb/s or 16Gb/s Fibre Channel, 1Gb/s or 10Gb/s iSCSI, or 6Gb/s SAS host interfaces. The wide choice offers great performance in more applications, with hybrid host interfaces available to deliver support for diverse environments on one system, for example Fibre Channel/SAS and onboard iSCSI. Host interface modules can be easily swapped and upgraded, making EonStor DS 3000 systems very future-proof.

User friendly maintenance

Clear and easy to act upon system status messages make troubleshooting simple even without elaborate IT support. Additionally, integrated smart media scan prevents data errors and corruption. It works in the background at all times without affecting system performance, keeping close tabs on your data to ensure its integrity.

ES DS 3000 Series



Intuitive system messages plus smart media scan

- Tiered and easily actionable system notifications keep you informed and in control
-
- Smart media scan works in the background to enhance data integrity and prevent corruption

Full data service bundles

- Thin provisioning improves storage utilization from an average 30% to 80% - get more for your investment
- Multi-target snapshot offers up to 4096 targets, so you always have backups to recover vital data at different points in time
- Multi-pair volume copy/mirror supports up to 64 pairs to ensure entire volumes can be backed up with minimal effort

User friendly management

- Exclusive SANWatch 3.0 browser-based interface makes management accessible from a single front end
- Proprietary RAIDWatch 3.0 provides RAID protection and powerful best practice facilities
- Support for intricate CLI editing

Energy saving design

- Efficient 80 PLUS power supplies
- Intelligent drive spin-down reduces energy draw by up to 60% while extending drive lifespan

High Speed Flexible Storage Delivers Robust Reliability and Management

High speed performance and flexible scalability

Discover new standards of storage performance with up to 1.3M IOPs and 5,500 Mbps throughput. EonStor DS 3000 systems are excellent platforms for database and VDI applications thanks to ample computing power, and their massive bandwidth serves to enhance media editing and surveying jobs, freeing you from bottlenecks. When looking to expand storage, up to an extra 360 drives can be connected easily using Infortrend JB 2000 enclosures. You get access to as much as 1,440TB space, with each drive up to 4TB in size.

Effortless management with exclusive tools

Proprietary SANWatch 3.0 browser-based user interface gives you a consolidated and highly accessible storage management front end. It is complemented by RAIDWatch 3.0, another exclusive Infortrend utility that allows you to implement best practices to enhance RAID array performance. Systems also ship with extensive CLI and command editing to ensure you get full supervision and oversight capabilities.

Technical Specifications

Model name	ESDS 3012R ESDS 3012G	ESDS 3012RE ESDS 3012GE	ESDS 3016R ESDS 3016G	ESDS 3016RE ESDS 3016GE
Form factor	2U 12-bay LFF 19-inch rackmount	2U 12-bay LFF 19-inch rackmount	3U 16-bay LFF 19-inch rackmount	3U 16-bay LFF 19-inch rackmount
Storage controller	Single or dual-redundant			
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP+ or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports			
Onboard GbE ports (per controller)	-	4 x 1Gb iSCSI ports	-	4 x 1Gb iSCSI ports
Cache memory (per controller)[4]	2GB, 4GB, 8GB or 16GB			
Max drives (per system)	12	12	16	16
Max drives (via expansion enclosure)[5]	312	312	316	316
Expansion enclosure (JBOD)	JB 2012 JB 2048 JB 2060	JB 2012 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port			
Supported drives[1]	• 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB • 3.5" 15K RPM SAS - 300GB, 450GB, 600GB • 3.5" 7200 RPM NL SAS - 1TB, 2TB, 3TB, 4TB, 6TB • 3.5" 7200 RPM SATA - 1TB, 2TB, 3TB, 4TB, 5TB			
Power supplies	Two redundant 530W			
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication[2] – Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096	
	Local replication[2] – Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256	
	Thin provisioning	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
	Remote replication[6]	Replications per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64		
	Automated storage tiering[6]	Two (2) storage tiers based on drive types SSD support Automated data migration with scheduling options		
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad)[6], failover[6], jumbo frame[6]			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support[1]	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support[3]	Standard service	3-year limited hardware/software warranty and 8x5 phone, web, and email support		
	Upgrade/extension options[4]	Replacement part dispatch on the next business day (up to 5 years) **Advanced service**: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) **Premium service**: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years		

1. For the latest compatibility details, please contact our sales representatives.
2. Standard functions come default with EonStor DS systems. Advanced functions are available with optional licenses.
3. All EonStor DS systems ship with standard service. Software maintenance covers software licenses for EonStor DS systems.
4. Options may vary by region.
5. Firmware upgrade is required while drives numbers are exceeding 240. Please contact Infortrend technical support for detail information.
6. Remote replication and automated storage tiering functions are available with optional license.

Technical Specifications

Model name	ESDS 3024R ESDS 3024G	ESDS 3024RE ESDS 3024GE	ESDS 3024RB[7] ESDS 3024GB[7]	ESDS 3024REB[7] ESDS 3024GEB[7]
Form factor	4U 24-bay LFF 19-inch rackmount	4U 24-bay LFF 19-inch rackmount	2U 24-bay SFF 19-inch rackmount	2U 24-bay SFF 19-inch rackmount
Storage controller	Single or dual-redundant			
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP+ or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports			
Onboard GbE ports (per controller)	-	4 x 1Gb iSCSI ports	-	4 x 1Gb iSCSI ports
Cache memory (per controller)[4]	2GB, 4GB, 8GB or 16GB			
Max drives (per system)	24	24	24	24
Max drives (via expansion enclosure)[5]	324	324	360	360
Expansion enclosure (JBOD)	JB 2016 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060	JB 2024B JB 2048 JB 2060	JB 2024B JB 2048 JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port			
Supported drives[1]	• 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB • 3.5" 15K RPM SAS - 300GB, 450GB, 600GB • 3.5" 7200 RPM NL SAS - 1TB, 2TB, 3TB, 4TB, 6TB • 3.5" 7200 RPM SATA - 1TB, 2TB, 3TB, 4TB, 5TB		• 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB	
Power supplies	Three 530W		Two redundant 530W	
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication[2] – Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096	
	Local replication[2] – Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256	
	Thin provisioning	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
	Remote replication[6]	Replications per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64		
	Automated storage tiering[6]	Two (2) storage tiers based on drive types SSD support Automated data migration with scheduling options		
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad)[6], failover[6], jumbo frame[6]			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support[1]	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support[3]	Standard service	3-year limited hardware/software warranty and 8x5 phone, web, and email support		
	Upgrade/extension options[4]	Replacement part dispatch on the next business day (up to 5 years) **Advanced service**: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) **Premium service**: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years		

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5. Firmware upgrade is required while drives numbers are exceeding 240. Please contact Infortrend technical support for detail information.
6. Remote replication and automated storage tiering functions are available with optional license.
7. Available in March, 2014.

Technical Specifications

Model name	ESDS 3048R ESDS 3048G	ESDS 3048RE ESDS 3048GE	ESDS 3060R ESDS 3060G	ESDS 3060RE ESDS 3060GE
Form factor	4U 48-bay LFF 19-inch rackmount	4U 48-bay LFF 19-inch rackmount	4U 60-bay LFF 19-inch rackmount	4U 60-bay LFF 19-inch rackmount
Storage controller	Single or dual-redundant			
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP+ or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports			
Onboard GbE ports (per controller)	-	2 x 1Gb iSCSI ports	-	2 x 1Gb iSCSI ports
Cache memory (per controller)[4]	2GB, 4GB, 8GB or 16GB			
Max drives (per system)	48	48	60	60
Max drives (via expansion enclosure)[5]	336	336	360	360
Expansion enclosure (JBOD)	JB 2048	JB 2048	JB 2060	JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port			
Supported drives[1]	• 3.5" 7200 RPM NL SAS- 1TB, 2TB, 3TB, 4TB, 6TB • 3.5" 7200 RPM SATA - 1TB, 2TB, 3TB, 4TB, 5TB (ESDS 3048G/3048GE/3060G/3060GE only)			
Power supplies	Three 530W	Three 530W	Two redundant 1600W	Two redundant 1600W
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication[2] – Snapshot: Snapshot images per source volume: Standard license: 64 / advanced license: 256; Snapshot images per system: Standard License: 128 / advanced license: 4096			
	Local replication[2] – Volume copy/mirror: Source volumes per system: Standard license: 16 / advanced license: 32; Replication pairs per source volume: Standard license: 4 / advanced license: 8; Replication pairs per system: Standard license: 64 / advanced license: 256			
	Thin provisioning: "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space			
	Remote replication[6]: Replications per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64			
	Automated storage tiering[6]: Two (2) storage tiers based on drive types SSD support Automated data migration with scheduling options			
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad)[6], failover[6], jumbo frame[6]			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support[1]	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support[3]	Standard Service: 3-year limited hardware/software warranty and 8x5 phone, web, and email support			
	Upgrade/extension Options[4]: Replacement part dispatch on the next business day (up to 5 years) **Advanced service**: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) **Premium service**: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years			

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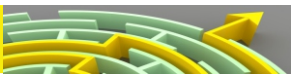

Model name	ESDS 3012RT ESDS 3012GT	ESDS 3012RTE ESDS 3012GTE	ESDS 3016RT ESDS 3016GT	ESDS 3016RTE ESDS 3016GTE
Form factor	2U 12-bay LFF 19-inch rackmount	2U 12-bay LFF 19-inch rackmount	3U 16-bay LFF 19-inch rackmount	3U 16-bay LFF 19-inch rackmount
Storage controller	Single or dual-redundant			
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP+ or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports			
Onboard GbE ports (per controller)	-	4 x 1Gb iSCSI ports	-	4 x 1Gb iSCSI ports
Cache memory (per controller)[4]	2GB, 4GB, 8GB or 16GB			
Max drives (per system)	12	12	16	16
Max drives (via expansion enclosure)[5]	312	312	316	316
Expansion enclosure (JBOD)	JB 2012 JB 2048 JB 2060	JB 2012 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port			
Supported drives[1]	• 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB • 3.5" 15K RPM SAS - 300GB, 450GB, 600GB • 3.5" 7200 RPM NL SAS - 1TB, 2TB, 3TB, 4TB, 6TB • 3.5" 7200 RPM SATA- 1TB, 2TB, 3TB, 4TB, 5TB			
Power supplies	Two redundant 530W	Two redundant 530W	Two redundant 530W	Two redundant 530W
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication[2] – Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096	
	Local replication[2] – Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256	
	Thin provisioning	" Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
	Remote replication[6]	Replications per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64		
	Automated storage tiering[6]	Two (2) storage tiers based on drive types SSD support Automated data migration with scheduling options		
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad)[6], failover[6], jumbo frame[6]			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support[1]	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support[3]	Standard service	3-year limited hardware/software warranty and 8x5 phone, web, and email support		
	Upgrade/extension options[4]	Replacement part dispatch on the next business day (up to 5 years) **Advanced service**: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) **Premium service**: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years		

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4. Options may vary by region.
5. Firmware upgrade is required while drives numbers are exceeding 240. Please contact Infortrend technical support for detail information.
6. Remote replication and automated storage tiering functions are available with optional license.

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Model name	ESDS 3024RT ESDS 3024GT	ESDS 3024RTE ESDS 3024GTE	ESDS 3024RTB[7] ESDS 3024GTB[7]	ESDS 3024RTEB[7] ESDS 3024GTEB[7]
Form factor	4U 24-bay LFF 19-inch rackmount	4U 24-bay LFF 19-inch rackmount	2U-24bay SFF 19-inch rackmount	2U-24bay SFF 19-inch rackmount
Storage controller	Single or dual-redundant			
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP+ or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports			
Onboard GbE ports (per controller)	-	4 x 1Gb iSCSI ports	-	4 x 1Gb iSCSI ports
Cache memory (per controller)[4]	2GB, 4GB, 8GB or 16GB			
Max drives (per system)	24	24	24	24
Max drives (via expansion enclosure)[5]	324	324	360	360
Expansion enclosure (JBOD)	JB 2016 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060	JB 2024B JB 2048 JB 2060	JB 2024B JB 2048 JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port			
Supported drives[1]	• 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB • 3.5" 15K RPM SAS - 300GB, 450GB, 600GB • 3.5" 7200 RPM NL SAS - 1TB, 2TB, 3TB, 4TB, 6TB • 3.5" 7200 RPM SATA- 1TB, 2TB, 3TB, 4TB, 5TB		• 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB	
Power supplies	Three 405W	Three 405W	Two redundant 530W	Two redundant 530W
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication[2] – Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096	
	Local replication[2] – Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256	
	Thin provisioning	" Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
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Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad)[6], failover[6], jumbo frame[6]			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support[1]	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support[3]	Standard service	3-year limited hardware/software warranty and 8x5 phone, web, and email support		
	Upgrade/extension options[4]	Replacement part dispatch on the next business day (up to 5 years) **Advanced service**: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) **Premium service**: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years		

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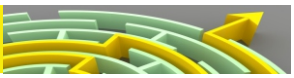

Model name	ESDS 3048RT ESDS 3048GT	ESDS 3048RTE ESDS 3048GTE	ESDS 3060RT ESDS 3060GT	ESDS 3060RTE ESDS 3060GTE
Form factor	4U-48bay 19-inch rackmount	4U-48bay 19-inch rackmount	4U 60-bay LFF 19-inch rackmount	4U 60-bay LFF 19-inch rackmount
Storage controller	Single or dual-redundant			
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP+ or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports			
Onboard GbE ports (per controller)	-	2 x 1Gb iSCSI ports	-	2 x 1Gb iSCSI ports
Cache memory (per controller)[4]	2GB, 4GB, 8GB or 16GB			
Max drives (per system)	48	48	60	60
Max drives (via expansion enclosure)[5]	336	336	360	360
Expansion enclosure (JBOD)	JB 2048	JB 2048	JB 2060	JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port			
Supported drives[1]	• 3.5" 7200 RPM NL SAS- 1TB, 2TB, 3TB, 4TB, 6TB • 3.5" 7200 RPM SATA - 1TB, 2TB, 3TB, 4TB, 5TB (ESDS 3048GT/3048GTE/3060GT/3060GTE only)			
Power supplies	Three 530W		Two redundant 1600W	
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down Three 530W			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication[2] — Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096	
	Local replication[2] — Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard license: 16 / Advanced License: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256	
	Thin provisioning	" Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
	Remote Replication[6]	Replication per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64		
	Automated Storage Tiering[6]	Two (2) storage tiers based on drive types SSD supports Automated data migration with scheduling options		
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad)[6], failover[6], jumbo frame[6]			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support[1]	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support[3]	Standard service	3-year limited hardware/software warranty and 8x5 phone, web, and email support		
	Upgrade/extension options[4]	Replacement part dispatch on the next business day (up to 5 years) Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years		

1. For the latest compatibility details, please contact our sales representatives.
2. Standard functions come default with EonStor DS systems. Advanced functions available with optional licenses.
3. All EonStor DS systems ship with Standard Service. Software maintenance covers software licenses for EonStor DS systems.
4. Options may vary by region.
5. Firmware upgrade is required while drives numbers are exceeding 240. Please contact Infortrend technical support for detail information.
6. Remote replication and automated storage tiering functions are available with optional license.

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